

SAF-RC-006
100-N Ancillary Facilities & 190-DR
Other Solid Sampling for ERDF Waste
Designation
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Dave Encke X5-50

KW 8/28/2007
INITIAL/DATE

Amy Hood X5-50

KW 8/28/2007
INITIAL/DATE

Tom Edmundson X5-50

KW 8/28/2007
INITIAL/DATE

COMMENTS:

SDG 07-A-4712

SAF-RC-006

Rad only

☒ Chem only

Rad & Chem

☒ Complete

Partial

Waste Site(s): MO-950 Potential Asbestos

RECEIVED
SEP 04 2007
EDMC



8/27/07
Page 1 of 4

SUBMITTED TO:

Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354



REFERENCE DATA:

Client Sample No.:	J15HD4 through J15HF3
P.O. No.:	Not Available
Sample Location:	MO-950 Potential Asbestos
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-4712
DCL Sample ID No.:	07-27168 through 07-27177
Sample Receipt Date:	8/23/07
Analysis Date:	8/27/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.


Shawn Smythe
Analyst


Anna Marie Ristich
Reviewer

*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government.

CINCINNATI OFFICE
4388 GLENDALE-MILFORD ROAD
CINCINNATI, OHIO 45242-3708
513 733-5336, FAX 513 733-5347

WEST COAST OFFICE
11 SANTA YORMA COURT
NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9469

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: MO-950 Potential Asbestos
Set ID: 07-A-4712

Client Sample ID:	J15HD4	J15HD5	J15HD5	J15HD6	J15HD6
DCL Sample ID:	07-27168	07-27169A	07-27169B	07-27170A	07-27170B
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Layered
	Inseparable				
Color:	Grey	Grey	Brown	Grey	Brown
Texture:	Cmpt/Crmby	Compact	Crumbly	Compact	Crumbly
Description:	Tile/Mastic	Tile	Mastic	Tile	Mastic
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>1 ≤ 3	>1 ≤ 3		>1 ≤ 3	
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>1 ≤ 3	>1 ≤ 3	ND	>1 ≤ 3	ND
Other Materials					
% Cellulose:			>5 ≤ 10		>5 ≤ 10
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:	>10 ≤ 20	>10 ≤ 20	>30 ≤ 40	>10 ≤ 20	>30 ≤ 40
% Non Fibrous:	>70 ≤ 80	>70 ≤ 80	>40 ≤ 50	>70 ≤ 80	>40 ≤ 50

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

8/27/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: MO-950 Potential Asbestos
Set ID: 07-A-4712

Client Sample ID:	J15HD7	J15HD8	J15HD9	J15HF0	J15HF1
DCL Sample ID:	07-27171	07-27172	07-27173	07-27174	07-27175
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.	Homog.
Color:	Tan	Tan	Tan	Grey	Grey
Texture:	Fibrous	Fibrous	Fibrous	Crmby/Fbrs	Crmby/Fbrs
Description:	Ceiling Tile	Ceiling Tile	Ceiling Tile	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:				>5 ≤ 10	>5 ≤ 10
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	>5 ≤ 10	>5 ≤ 10
Other Materials					
% Cellulose:	>80 ≤ 90	>80 ≤ 90	>80 ≤ 90		
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:					
% Non Fibrous:	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	>80 ≤ 90	>80 ≤ 90

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


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Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

8/27/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: MO-950 Potential Asbestos
Set ID: 07-A-4712

Client Sample ID:	J15HF2	J15HF3
DCL Sample ID:	07-27176	07-27177
Macroscopic Examination		
Accepted/Rejected:	Accepted	Accepted
Homogeneity:	Homog.	Homog.
Color:	Grey	Grey
Texture:	Crmby/Fbrs	Crmby/Fbrs
Description:	Material	Material
Analysis:	PLM	PLM
Asbestiform Minerals		
% Chrysotile:	>5 ≤ 10	>5 ≤ 10
% Amosite:		
% Crocidolite:		
% Tremolite - Actinolite:		
% Anthophyllite:		
% Total Asbestos:	>5 ≤ 10	>5 ≤ 10
Other Materials		
% Cellulose:		
% Fiberglass:		
% Other Fibers:		
% Resin/Binder:		
% Non Fibrous:	>80 ≤ 90	>80 ≤ 90

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-006-144		Page 1 of 2	
Collector Amy Hood/Tom Edmundson		Company Contact J. Crocker		Telephone No. 376-4058		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days TUE 8-21-07 / DAY	
Project Designation 100-N Ancillary Facilities & 190-DR Other Solid Sampling f		Sampling Location MO-950 Potential Asbestos		SAF No. RC-006					
Ice Chest No. FED EX BOX		Field Logbook No. EL-1516-11		COA RD4MXX2F00		Method of Shipment Fed Ex			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070305		Bill of Lading/Air Bill No. SEE OSCP					
POSSIBLE SAMPLE HAZARDS/REMARKS N/A Special Handling and/or Storage N/A		Preservation		None					
		Type of Container		G/P					
		No. of Container(s)		1					
		Volume		5g					
SAMPLE ANALYSIS 07-A-4712		Asbestos-BULK-EPA							
Sample No. 07		Matrix *		Sample Date		Sample Time			
J15HD4 27168		OTHER SOLID		8-21-07		1402		✓	
J15HD5 27169		OTHER SOLID		8-21-07		1404		✓	
J15HD6 27170		OTHER SOLID		8-21-07		1406		✓	
J15HD7 27171		OTHER SOLID		8-21-07		1410		✓	
J15HD8 27172		OTHER SOLID		8-21-07		1415		✓	
CHAIN OF POSSESSION				Sign/Print Names				SPECIAL INSTRUCTIONS	
Relinquished By/Removed From <i>Tom Edmundson</i>		Date/Time 8-21-07 1630		Received By/Stored In 37284 3A		Date/Time 8-21-07 1630		Potential ACM RUSH Sampler unavailable to relinquish samples from 3728 Ref # 3A . 3728 Custodian removed samples for shipping on 8/22/07 .	
Relinquished By/Removed From 37284 3A		Date/Time 8-22-07 0830		Received By/Stored In <i>[Signature]</i>		Date/Time 8-22-07 0830			
Relinquished By/Removed From <i>[Signature]</i>		Date/Time 8-22-07 1500		Received By/Stored In FED EX		Date/Time			
Relinquished By/Removed From <i>[Signature]</i>		Date/Time		Received By/Stored In <i>[Signature]</i>		Date/Time 8/24/07			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Matrix * S-Soil SO-Sediment SL-Sludge W-Water O-Oil A-Air DS-Dross Solids DL-Dross Liquids T-Times WI-Wipe L-Liquid V-Vegetation X-Other	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By <i>[Signature]</i>		Title		Date/Time 8/23/07 1044			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-006-144		Page 2 of 2	
Collector Amy Hood/Tom Edmondson		Company Contact J. Crocker		Telephone No. 376-4058		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days TUE 8/21/07 / Day	
Project Designation 100-N Ancillary Facilities & 190-DR Other Solid Sampling f		Sampling Location MO-950 Potential Asbestos		SAF No. RC-006					
Ice Chest No. FED EX BOX		Field Logbook No. EL-1516-11		COA RD4MXX2P00		Method of Shipment Fed Ex			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070305		Bill of Lading/Air Bill No. SEE OSCP					
POSSIBLE SAMPLE HAZARDS/REMARKS N/A		Preservation		Nom					
Special Handling and/or Storage N/A		Type of Container		GP					
		No. of Container(s)		1					
		Volume		5g					
SAMPLE ANALYSIS		Asbestos-BULK-SPA							
Sample No.	Matrix *	Sample Date	Sample Time						
J15HD9 27173	OTHER SOLID	8-21-07	1418	✓					
J15HF0 27174	OTHER SOLID	8-21-07	1423	✓					
J15HF1 27175	OTHER SOLID	8-21-07	1427	✓					
J15HF2 27176	OTHER SOLID	8-21-07	1432	✓					
J15HF3 27177	OTHER SOLID	8-21-07	1435	✓					
CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS					
Relinquished By/Removed From J. Crocker 8-21-07 1630		Received By/Secured In 3728 #3A 8-21-07 1630		Potential ACM					
Relinquished By/Removed From 3728 #3A 8-22-07 0830		Received By/Secured In J. Crocker 8-22-07 0830		RUSH					
Relinquished By/Removed From J. Crocker 8-22-07 1500		Received By/Secured In FED EX		Sampler unavailable to relinquish samples from 3728 Ref # 3A. 3728 Custodian removed samples for shipping on 8/22/07.					
Relinquished By/Removed From F. Crocker		Received By/Secured In 8/21/07							
Relinquished By/Removed From		Received By/Secured In							
Relinquished By/Removed From		Received By/Secured In							
LABORATORY SECTION		Received By		Title					
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By					
				Date/Time 8/23/07/1945					
				Date/Time					